

Overview & Annual Reduction Goals



2018-2022

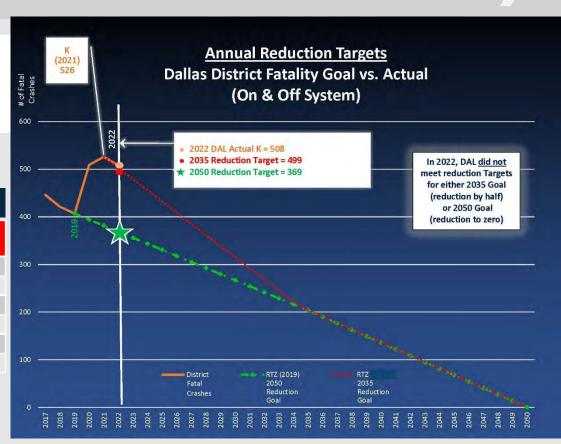
2,373 K crashes

- Ave 475 K crashes/year
- 1.3 K crashes/day

K Crashes –	(2018-2022)

	Year	Fatal (K)	RTZ Goal (K) Zero by 2050	RTZ Goal (K) Half by 2035
*	2017	446		
	2018	421		
	2019	407	407	
	2020	509	394	
	2021	526	382	526
	2022	508	369	499

⁵⁻year Analysis is for 2018-2022.

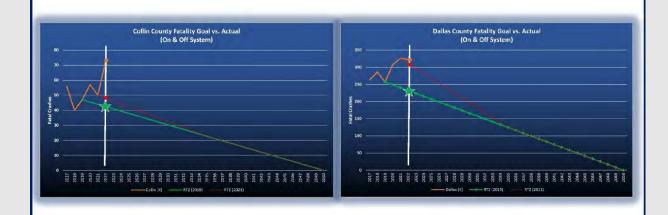


Overview & Annual Reduction Goals



This data has been further examined by County to determine if there are locations within the District that are meeting Annual Reduction Targets. The chart is a list of actual K crashes by each county, the 2035 reduction target for 2022, and the 2050 reduction target for 2022.

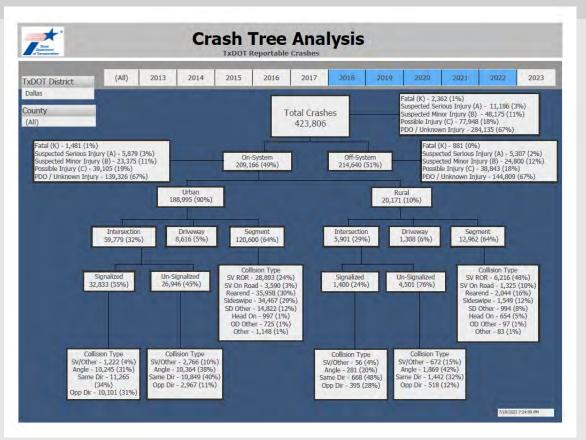
2022 Annual Reduction Targets								
Location	Actual K (2022)		2035 Target Achieved (Y/N)	Reduction Target for (2050)	2050 Target Achieved (Y/N)			
Collin County	73	48	N	43	N			
Dallas County	323	311	N	232	N			
Denton County	49	55	Υ	43	N			
Ellis County	28	31	Υ	20	N			
Navarro County	8	15	Υ	5	N			
Kaufman County	20	31	Υ	24	Υ			
Rockwall County	7	9	Υ	2	N			
Dallas District	508	499	N	369	N			



Dallas District September 1, 2023

Crash Trends: Crash Tree Diagram (2018-2022)





Crash Summary

Total Crashes: 423,806

On-System 49%

Off-System 51%

Fatal (K) Crashes: 2,373

Suspected Serious injury (A) crashes: <u>11,187</u>
Total KA crashes during the 5-year time

period is <u>13,560</u>.

On-System Fatal Crashes: <u>1,485</u> (63%) Off-System Fatal Crashes: <u>888</u> (37%)

Dallas District September 1, 2023

Crash Trends: Emphasis Areas (2018-2022)





- 1. Occupant Protection & Post Crash Care are new to the TxSHSP this year.
- 2. Strategies and implementation activities that address younger and older drivers were integrated into other EA sections.

DAL Safety
Plan
Emphasis
Areas



1. Speed Related EA added this year

Emphasis Area	% Total Fatal & Suspected Injury Crashes	% Total Fatalities & Suspected Serious Injuries
Roadway & Lane Departure	35%	34%
Speed Related	32%	33%
Intersection Safety	32%	32%
Occupant Protection	19%	21%
Impaired Driving	18%	19%
Distracted Driving	15%	15%
Vulnerable Road Users: Pedestrian	11%	10%
Vulnerable Road Users: Pedalcyclist	2%	2%
Post-Crash Care	N/A	N/A
Younger Drivers*	16%	17%
Older Drivers*	13%	14%

District Crashes by Emphasis Area (2023 Safety Plan)

	Intersection Safety	Speed Related	Roadway Departure	Pedestrian Safety	Wrong Way Driver
K	545	999	858	532	62
Α	4216	3612	3327	1147	71
Total	4761	4611	4185	1679	133

Crash Trends: Analysis #1: 5-Year Crash Trends KA Combined (2018-2022)



Dallas District Emphasis Area Statistics

Intersection Safety

Intersections make up majority of all KA crashes among the EAs. About 35% of KA crashes occur at intersections.

4761 KA Crashes

Wrong Way Driver

Tragic/Severe/High Profile

62%

of WWD KA crashes are Impaired

133 KA Crashes

<u>K</u> Crashes: <u>2,373</u> KA Crashes = 13,560.

Speed Related

42%

of all Fatal crashes in the District

4611 KA Crashes 999 K Crashes

Goal: Narrow the focus of the Safety Plan to the areas of greatest need and potential for success.

Pedestrian Safety

Vulnerable/No protection.

32%

of the KA crashes result in a fatality
1679 KA Crashes

Roadway Departure

Highest KA crash type Statewide.
When combined with Speed Related
Crashes, most deadly combination in the
District

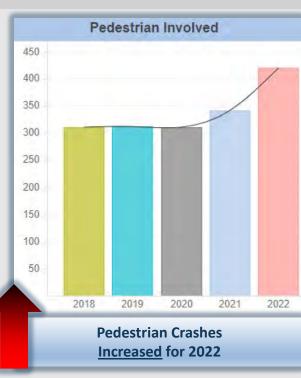
4185 KA Crashes

Crash Trends: Emphasis Areas (Annual Metrics 2018-2022)





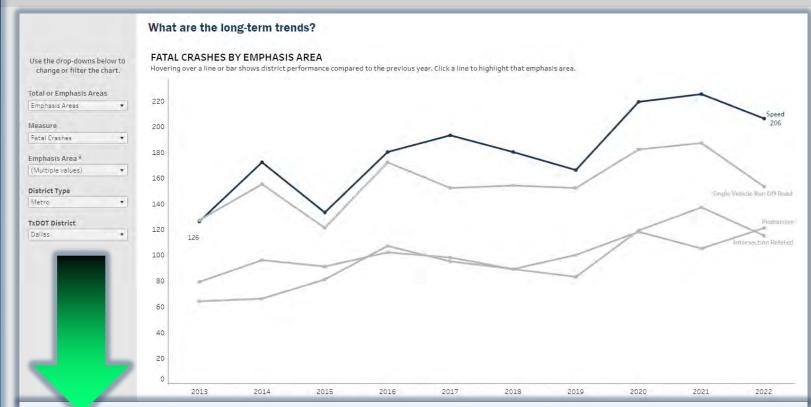




Crash Trends: Emphasis Areas (Annual Metrics 2018-2022)







Speed Related Crashes decreased for 2022

Crash Trends: Analysis #1: 5-Year Crash Trends KA Combined (2018-2022)



Dallas District Emphasis Area Top Overlaps



1	INTERSECTION RELATED CRASHES							
	KA Rank	KA Rank Combination EA KA		K				
	101114		4761		545			
	1	+ Speed	1126	23.65%	237	43.49%		
П	2	+ Younger	990	20.79%	112	20.55%		
	3	+ Older	824	17.31%	124	22.75%		
	4	+ Motorcycles	636	13.36%	105	19.27%		
	5	+ Distracted	598	12.56%	41	7.52%		
	*	+ Impaired	580	12.18%	214	39.27%		

Advanced Warning System for the end-of-Green (AWEGS) at signalized intersections on high-speed approaches. Crashes often involve combinations of additional contributing factors.

Crash Trends: Analysis #1: 5-Year Crash Trends KA Combined (2018-2022)



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Notable EA Trends:

Motorcycles

of Fatal Crashes

Declined

from 94 to 59 from 2021 to 2022

Older Road Users

3rd highest when combined with Pedestrians.
Clear Equity concerns require attention to
disadvantaged communities
Last year's Plan noted location of concern on
east side of Loop 12. Working with Dallas for
holistic solution.

Younger Road Users

In the Top 5 Contributing factor in 4 of the 5 EA Combinations.

Impaired Driving

39%

of all Fatal crashes in the District (33% Statewide)

Distracted Driving

Difficult to measure
Closely associated with Rear End Crashes
Per Crash Tree, Rear End collision types alone
account for 821 KA crashes. Total of 1799
"admitted" distracted driving crashes

Development Process: Collaboration and Communication





Development of Our Safety Program is a Collaborative Effort



District/Divisions

- Area Engineers, Maintenance Supervisors, Special Crews for Maintenance work
- Fatal Review Team
- Traffic Safety Specialists



Local Governments/Stakeholders

- City Officials, County Officials, State Rep, etc.
- North Central Texas Council of Governments
- Developers, Research Group (TTI)



Traveling Public

Report Issues

Dallas District September 1, 2023

Development Process: Collaboration and Communication



Education, Enforcement & EMS

Area Engineer Relationships

Community, Law Enforcement, Local Governments

- > winter weather coordination with Schools
- Project Coordination
- Law Enforcement in Work Zones

Sharing Information Builds Relationships

- "How can TxDOT help your agency?"
- > Outreach for HSIP project submittals for off-system crashes.
- ➤ AWEGS System Provide Data for law enforcement to sharpen/focus their efforts.

Behavioral Traffic Safety

- Education Campaigns and interactions with community
- Attend Weekly District Fatal Review meetings for perspective & focused efforts
- Increased District involvement in BTS Events



Courtesy Patrol Program

Coordination with Dallas Co. Sheriff Expanded the program to better serve communities:

- Extended into Rockwall and Ellis Counties
- Extended Hours of Operation (5a – Midnight)

Development Process: Traffic Management Strategies & Technology



TSMO Plan, completed in September 2021

Sections divided among departments/staff for implementation

ITS Master Plan, complete July 2023

Identifies and prioritizes assets that enhance the coverage of technology and support traffic operations and safety along key routes throughout the District. Makes recommendations for technology-based opportunities.

<u>Intelligent Transportation Systems</u> (ITS):

- > 743 Cameras/ 143 DMS
- > 3-4 Operators on the floor
- Waze/Crowdsourced data

<u>Traffic Incident Management (TIM):</u>

- Communication/Feedback with law enforcement and EMS
- > Training, efficient coordination

Help Alerts:

- ➤ Highway closures over 4 hours
- ➤ 23 Events reported since inception
- Well-received by the public

Flood Warnings:

Testing a Text alert notification system for efficient responses

Additional Technologies:

- > AWEGS, CENTRACS, MioVision
- ➤ IH-45 Innovation Corridor
- Over-height Detection Technology
- TCFC installation of RSUs underway
- Wrong Way Driver (WWD) Initiatives



Development Process: Types of Projects - HSIP Targeted



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HSIP – Targeted Process

Reactive project selection & screening



Reactive Project Selection

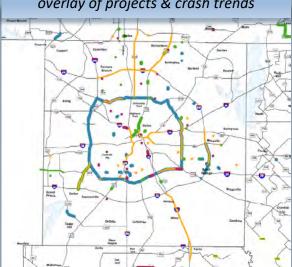
- Coordination with Local Governments, Area Offices, Maintenance Sections
- · Fatal Crash Reviews
- Analyze crash maps based on emphasis areas by County and Crash Type.

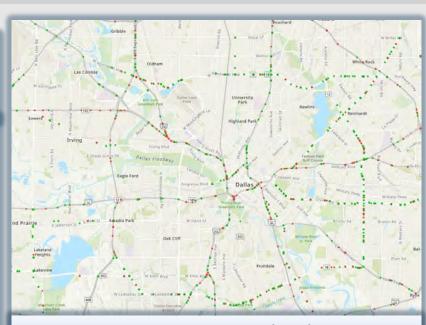
> Screening process

- District identifies potential projects
- Analyze crash data/reports
- Review roadway characteristics
- Calculate SII scores/Estimate costs
- Cross check with other funded projects to finalize project list

HSIP Project Map

Projects in ArcGIS by FY and soon by Emphasis Area for visual overlay of projects & crash trends





Interactive ArcGIS Crash Tool

Tool filters by crash severity (K & A), County, on or offsystem, and Emphasis Area Visual tool to see the locations of KA crashes and the locations of safety projects

Development Process: Types of Projects - HSIP Systemic Deployments

HSIP - Systemic

Developed potential HSIP projects for roadway departure, intersection, & ped emphasis areas



> Roadway Departure

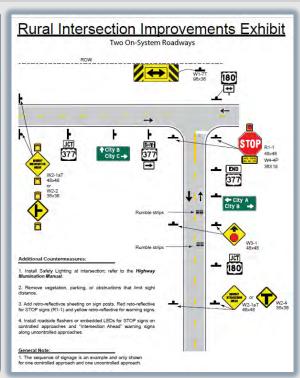
- Focus on median barrier and narrow roads
- Identified gaps in system Districtwide
- Prioritize based on roadway characteristics, ADT, and future growth

Intersection

 Focus on addition of turn lanes and signal improvements

Pedestrian

Lighting, sidewalks, ramps, APS units for crossing

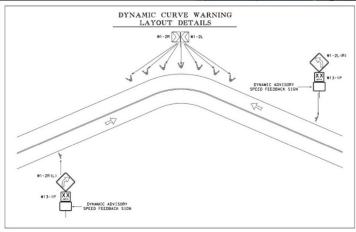




Rural T-Intersection Improvements 22 Locations identified throughout the District.

Prioritized by crash rates







Speed Feedback Signs w/LED Curve Warnings 20 Locations identified throughout the District.

Prioritized by crash rates.

Development Process: Types of Projects - HSIP City Partnerships





> FY 24-26 HSIP CFP

- 47 Projects
- \$26.2 M
- 9 Cities w/Projects Selected

> FY 23-25 HSIP CFP

- 37 Projects
- \$26.5 M
- 9 Cities w/Projects Selected

> FY 22-24 HSIP CFP

- 30 Projects
- \$12.5 M
- 5 Cities w/Projects Selected

Project Descriptions

Signal Improvements, Lighting, Signs, Turn Lanes, Speed Feedback Signs/Curve Channelization, etc.

9 cities awarded projects in the 2022 Call for Projects















GROWING COMMUNITY







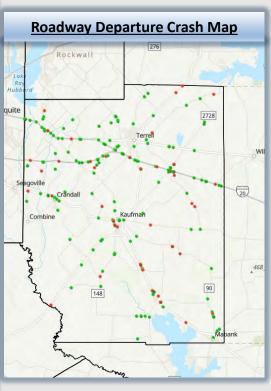
Dallas District September 1, 2023

Maps: Texturing

KAUFMAN COUNTY

Dallas District Texture Types Curb and Gutter/Speedlimit under 45MPH Milled - Center/Profile Edgeline Milled - Centerline and Edgelines Milled - Centerline Milled - Inside/Outside Edgeline Milled - Inside Edgeline Milled - Outside Edgeline Planned - Milled Planned - Profile Profile - Centerline and Edgelines Profile - Centerline Profile - Inside/Outside Edgeline Profile - Inside Edgeline Profile - Outside Edgeline CRCP/JCP



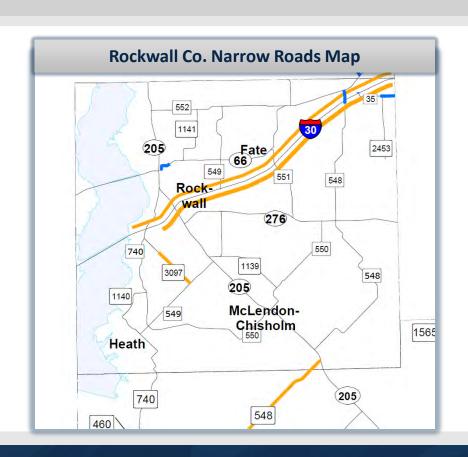


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Dallas District September 1, 2023



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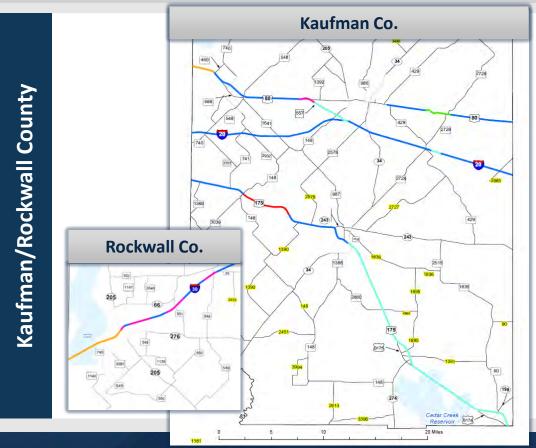
NARROW ROADS = 24ft or Less

Not Programmed

Under Construction or Programmed

Maps: Median Barrier



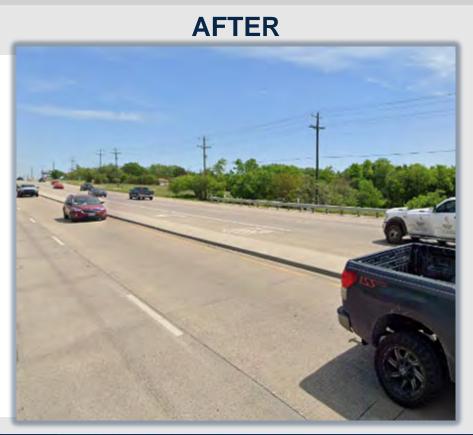


DALLAS DISTRICT MEDIAN BARRIERS & TYPES Barrier Type CTB Barrier Cable Barrier HSIP FY23 Project MBGF Median Barrier Median Width >70' Replace Cable with CTB Under Construction Asph CRCP/JCP





BEFORE

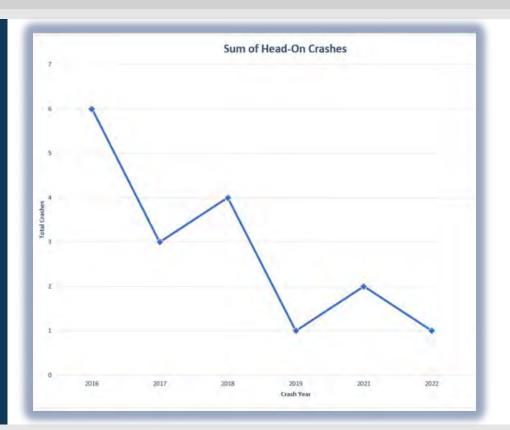


District Project: Evaluation - Before and After



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COLLIN COUNTY



Head-On Crashes

Location: US 380 (from FM 1827 to S. 4th Street)

Scope: Install raised medians throughout the corridor in place of two-way left turn lane (TWLTL). Construction was completed in 2019. Head-on crashes were pulled using CRIS from 2016 to 2022.



End the streak of daily deaths on Texas roadways.

TxDOT.gov (Keyword: #EndTheStreakTX)







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QUESTIONS?

Dallas District September 1, 2023



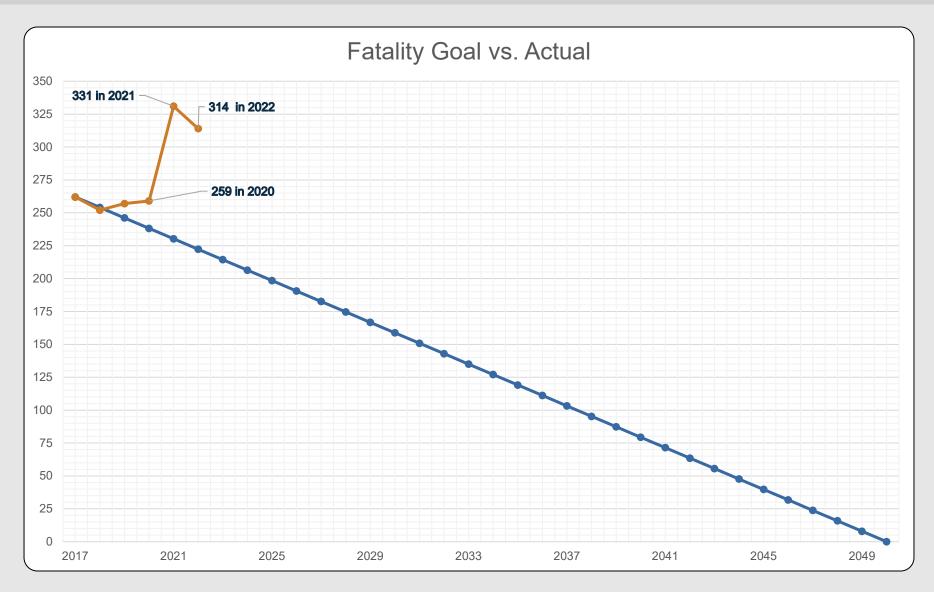
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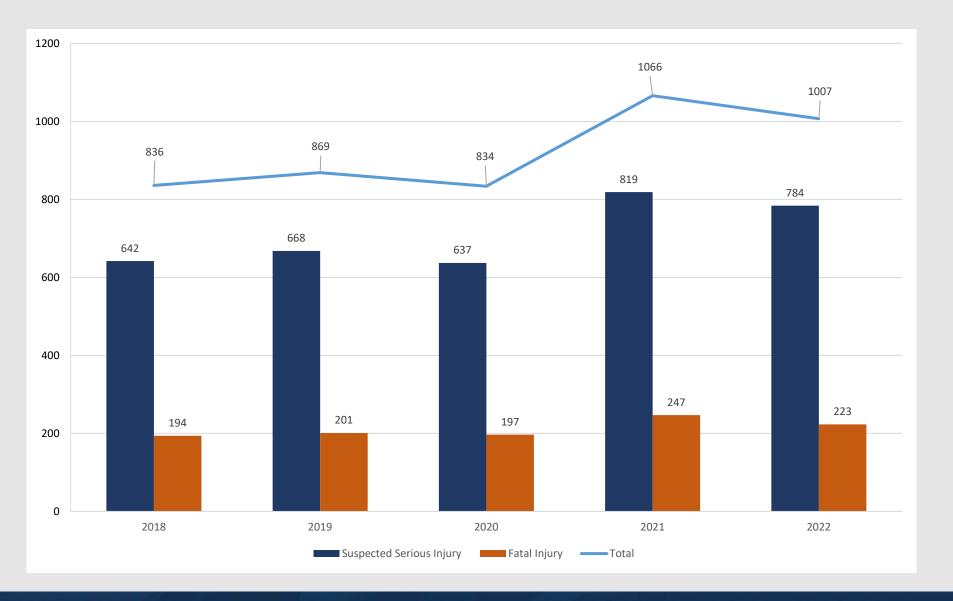
RTZ Goals





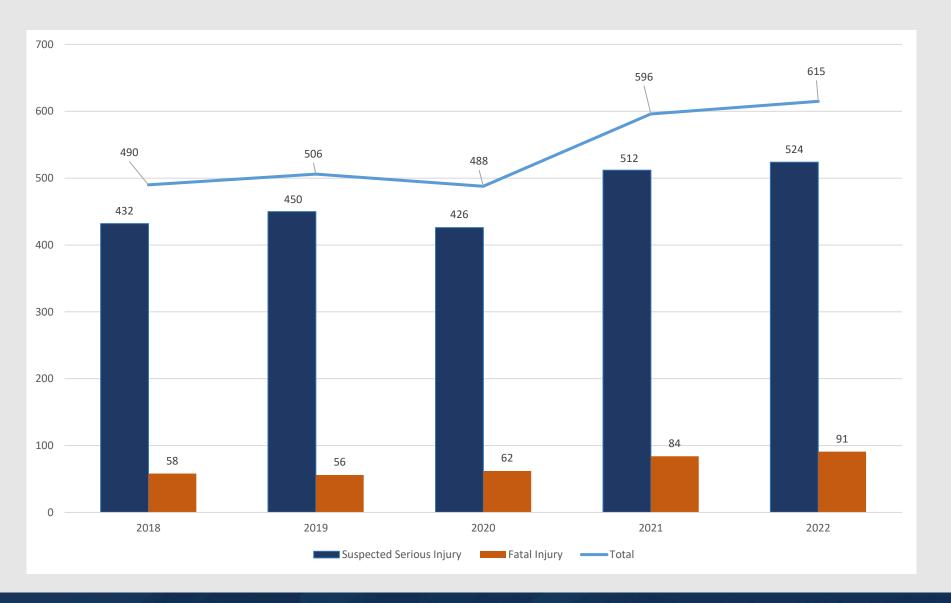
2018-2022 KA On-System Crash Trend





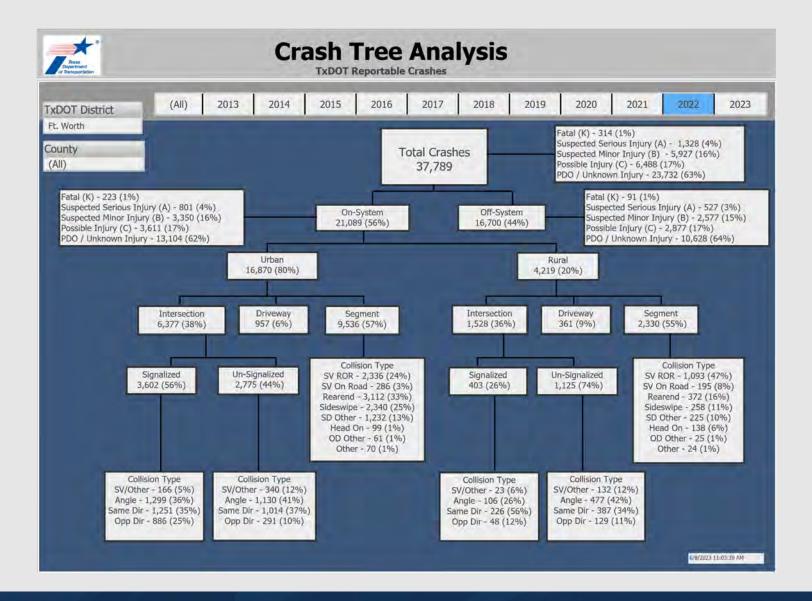
2018-2022 KA Off-System Crash Trend





Crash Tree-On System Breakdown

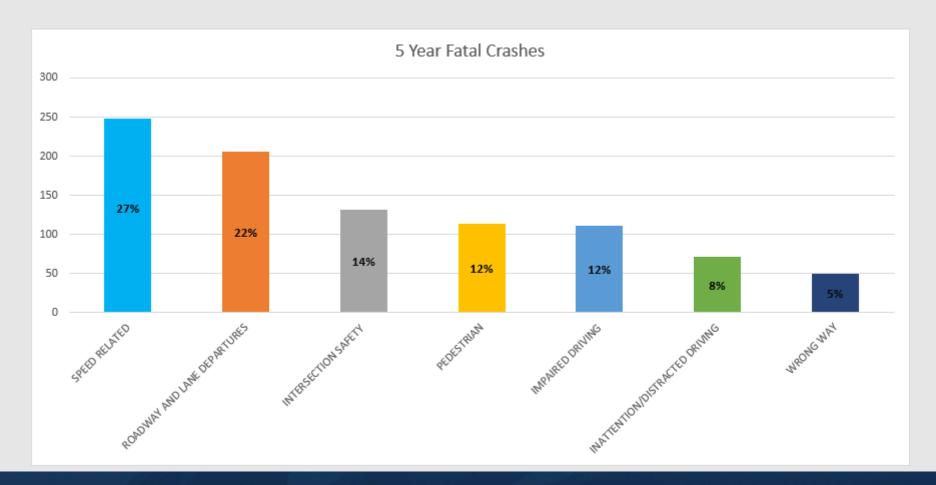




Emphasis & Behavioral Fatal Crash Trends 2018-2022

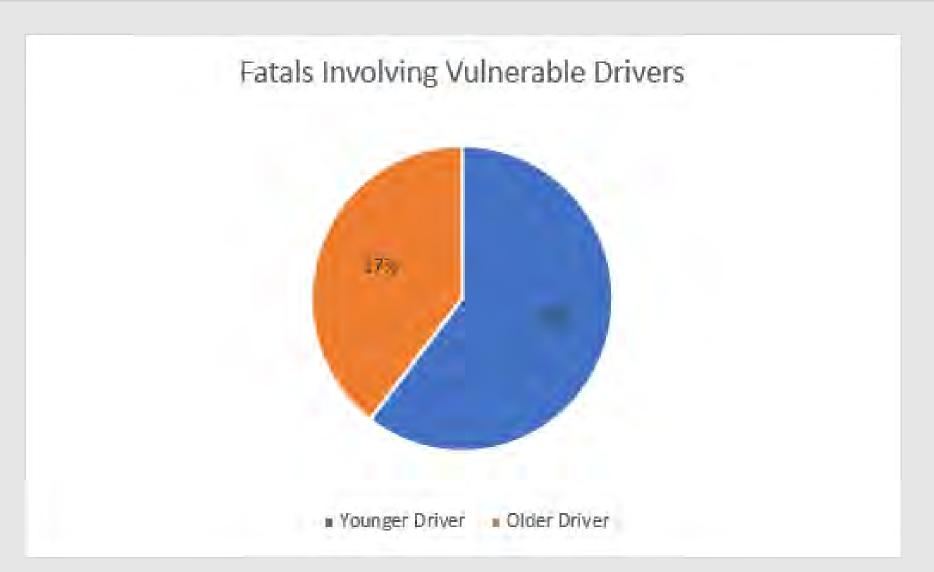


As a District, our top emphasis areas continue to be <u>speed related</u>, <u>roadway</u> <u>and lane departures</u>, <u>and intersection safety</u>.



Fatals involving Vulnerable Drivers 2018-2022



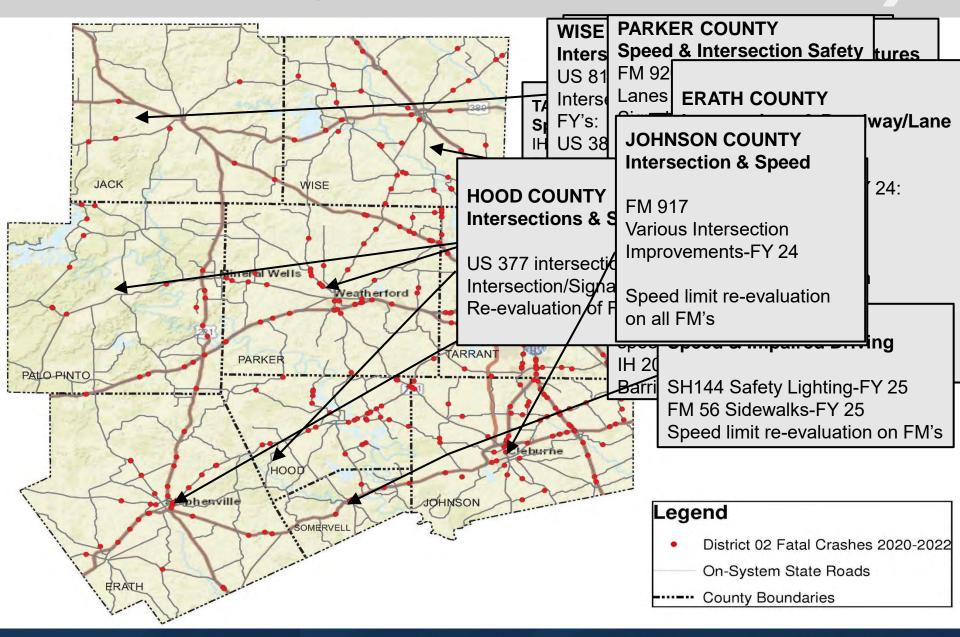


Emphasis Areas by County



	2020-2022 Total KA and Emphasis Areas							
County Total KA Total K % of Roadway and Lane Departure				% Pedestrians	% Intersection Safety	% Speed	% Impaired Driving	% Distracted
Tarrant	1776	406	21%	6%	17%	24%	5%	15%
Erath	122	35	24%	4%	27%	17%	11%	8%
Hood	115	30	10%	3%	30%	23%	11%	11%
Jack	27	7	11%	0%	26%	7%	37%	11%
Johnson	348	70	14%	3%	21%	28%	13%	10%
Palo Pinto	91	21	16%	1%	20%	26%	20%	9%
Parker	223	48	17%	3%	23%	26%	7%	14%
Sommervell	27	8	4%	7%	7%	30%	19%	15%
Wise	176	42	21%	1%	25%	20%	15%	9%
Total	2905	667	19%	4%	20%	24%	8%	13%

Fort Worth District Hot Spots



System Safety Strategies-Engineering



Project Lists

CAT1 Prioritized List

CAT 8 & CAT 11S

Pedestrian Safety Projects

Off System Projects

Traffic Operations Portfolio

- Traffic Signal 4-year plan
- Illumination 4-year plan
- ITS 4-year plan
- Signing 4-year plan
- Striping 4-year plan
- Rail Safety Projects

System Safety Strategy-Engineering



HSIP focus on:

Signal upgrades, backplates, FYA, ped improvements for on and off-system

Intersection improvements

Safety Lighting

Wrong Way Driving Project-US 287

HSIP Selection Method	2020 Call	2021 Call	2022 Call
On System Targeted	\$ 3,922,174	\$ 4,277,583	\$ 1,642,570
Off System Targeted	\$ 15,318,853	\$ 1,042,564	\$ 3,723,290
Systemic	\$ 8,751,380	\$ 2,608,279	\$ 9,981,348

CAT 11s:

\$39M programmed

- -Year 1 of Striping Program
- -IH 20 Concrete Median Barrier
- -Pedestrian deterrent projects on IH 35W and IH 20

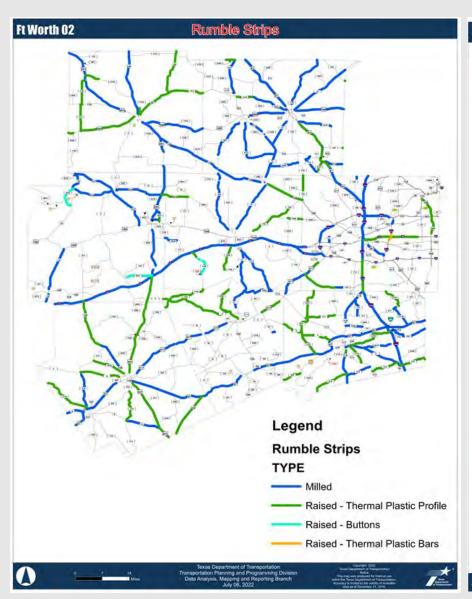
Off-System Focus:

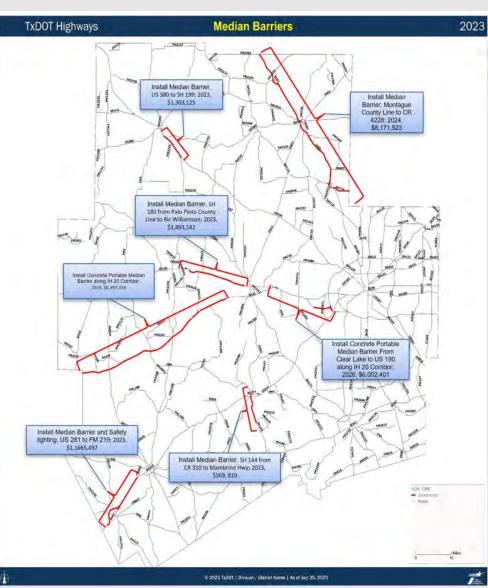
\$83M programmed

Focus on Safe Routes to School, pedestrian safety, and intersection & operational improvements

System Gaps-Rumble Strips and Median Barriers

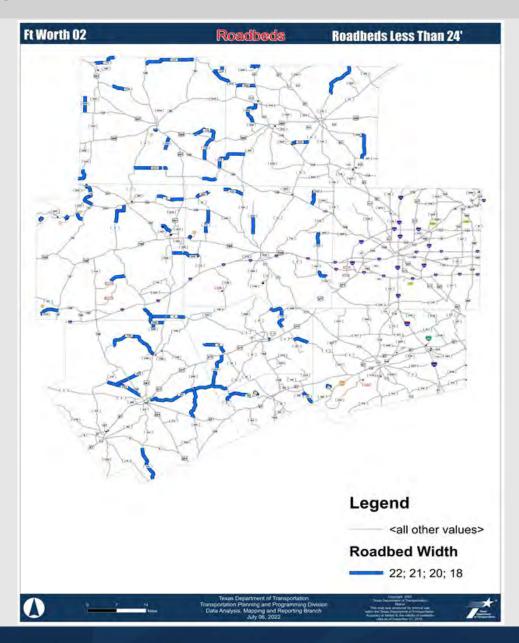






Narrow Roadways



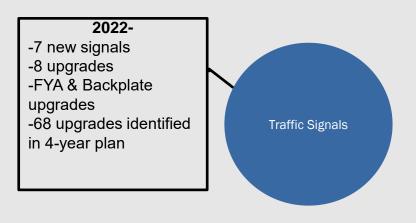


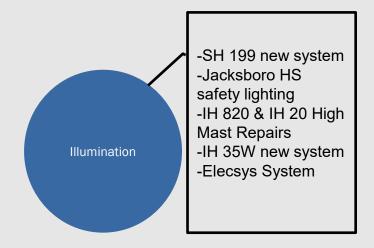
Traffic Engineering Strategies

*

- Traffic Operations 4-year plan w priorities
 - ~\$10M/year program

Asset	Current Construction	Current RMC
Signals	\$15M	\$200,000
Signs	\$2.5M	\$275,000
Illumination	\$8.0M	\$493,024
ITS	\$12M	\$2.5M (statewide contract)





Traffic Engineering-Sign Program

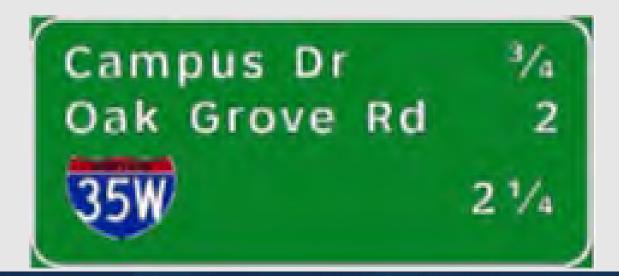


District Ownership & Oversight

- District Lead Sign Tech/crew
- Quarterly Sign Crew Meetings

Guide sign upgrade/repairs

- Needs identified in 4-year plan
- Replaced 6200 SF in Tarrant, Johnson and Hood counties
- Completed IH 20 and US 287 for a total of 45,000 SF
- Replaced 4 OSB structures
- Next FY we will replace the rest of IH 35W, SH 360, IH 820 and SH 199



Striping Program

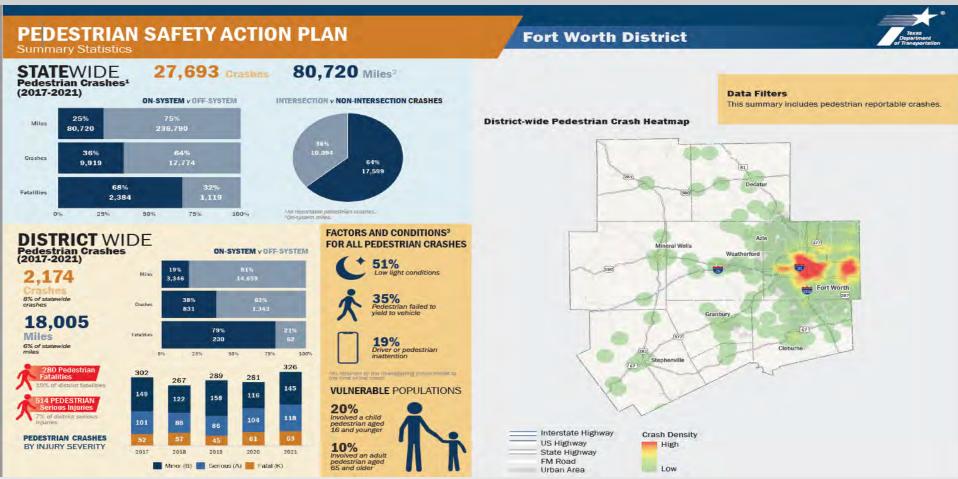
4 YEAR PLAN (PAV MRK PROGRAM)

2023									
	PRIORITY	HWY	FROM	TO	DESCRIPTION	ESTIMATE			
1	Tarrant	IH							
2	Johnson	IH							
3	Parker/Palo Pinto	IH							
4	Jack/Wise	NO IH PRESENT							
5	Erath/Hood/Somervell	IH					\$16,566,137.28	Total 2023	
2024							0902-00-369 p	rogrammed for 6/2	\$7.5 w CAT 11S
	PRIORITY	HWY	FROM	TO	DESCRIPTION	ESTIMATE			
1	Tarrant	US							
2	Johnson	US							
3	Parker/Palo Pinto	US							
4	Jack/Wise	US							
5	Erath/Hood/Somervell	US					\$33,714,166.04	Total 2024	
2025									
	PRIORITY	HWY	FROM	TO	DESCRIPTION	ESTIMATE			
1	Tarrant	SH							
2	Johnson	SH							
3	Parker/Palo Pinto	SH							
4	Jack/Wise	SH							0725
5	Erath/Hood/SomerveII	SH					\$37,190,739.46	Total 2025	
2026									
	PRIORITY	HWY	FROM	TO	DESCRIPTION	ESTIMATE			
1	Tarrant	BUS/FM/All others							
2	Johnson	BUS/FM/All others							
3	Parker/Palo Pinto	BUS/FM/All others							
4	Jack/Wise	BUS/FM/All others							
5	Erath/Hood/Somervell	BUS/FM/All others					\$113,021,184.76	Total 2026	



Pedestrian Safety





FY 24-27:

- -Over \$232M of pedestrian projects programmed
- -Pedestrian barriers programmed for IH 35W and IH 20
- -Video Analytics Pilot Project

Traffic Management Strategies



- Video Wall Upgrade
- ITS Plan

System Gaps

Upgrades

Asset Uptime

ITS Maintenance Contract

WWD Devices

17 devices in operation/26 under construction

2 new corridors identified

YEAR	WWD ALERT	Self-Correct	911 Notified	PD Caught
2017	72	69	3	0
2018	83	76	7	0
2019	77	70	7	1
2020*	19	17	2	0
2021	160	152	8	3
2022 -(Jan-Dec)	151	144	7	2
TOTAL:	562	528-Self corrected due to the TAPCO system in place	34 out of 562 Entered our highways at Tapco Locations	6 of those 34 have gotten caught, some of the 28 may have auto corrected on the highway or gotten off before policecould locate.

Work Zone Safety

*

End of Queue Detection Systems
IH 820/SH 121-Tarrant County
IH 20-Parker County

RFID Technology Pilot

Communication between equipment hardhats-Johnson & Jack counties





- Use of PCMS in Maintenance
 Work Zones
- Use of Speed Trailers in known problem areas

FM 920-Parker County

Work Zone Safety & Speed Zoning



Construction Speed Zoning

9 zones established in 2022

Maintenance Speed Zones

- 12 established in 2022
- 15 established in 2023

Speed Zone Analysis

- Re-evaluation of all FM's in Parker, Palo Pinto,
 Hood, Erath, Somervell, and Johnson counties
- Evaluation of US 377 and FM 51



Behavioral Traffic Safety-Education

- Fort Worth Area Coalition on Traffic Safety (FACTS)
- Member of Tarrant County Child Fatality Review Team
- Child passenger safety program
- Community outreach events
 - Click it or Ticket
 - Rollover demos
 - Safety Fair
 - School outreach





Participates in Traffic's monthly safety meeting

Enforcement Programs and Coordination

- 24 STEP grants across 13 local departments/agencies
 - 4 Agencies have grants that focus on commercial motor vehicle enforcement
 - Grant with the Tarrant County DA's office focuses on DWI enforcement

\$1.5 million grants in Fort Worth District



Coordination Efforts

Internal Coordination:

- Portfolio Meetings
- Director's Meetings
- Safety Leadership Focus
- District Leadership presence in sections

External Coordination:

- HSIP Off-system collaboration
- Quarterly Meetings with cities
- School District Coordination-early coordination
- MPO Coordination:
 - Signal Retiming Program

Regional Safety Advisory Committee

Bicycle Pedestrian Committee

Intersection Safety Implementation Plan

511 Enhancements

MPO Statewide Safety Task Force





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Questions?



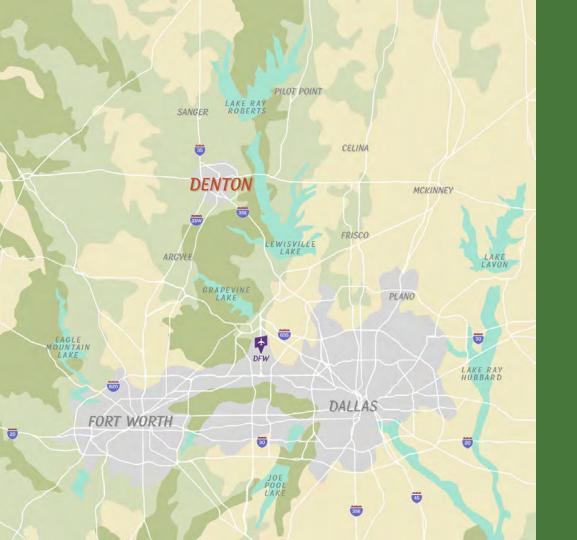
Getting to Zero

Denton

TEXAS

Tina Firgens, Deputy Director of Development Services/Planning Director

NCTCOG – Regional Safety Advisory Committee August 25, 2023



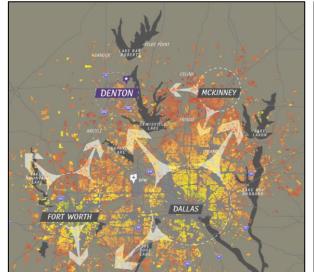
Denton, TX

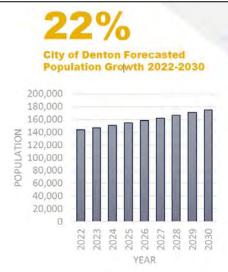
- Suburb of Dallas/Ft Worth
 - +/-30 miles north
- Population: 148K
- · Corporate limits: 98.14 sq. mi.
- · College town:
 - Univ. of North Texas
 - Texas Woman's Univ.
 - North Central Texas College

Who is Denton, TX?

- Old and new
 - County seat
- Rapidly growing city
 - 5% population increase since 2020 (per US Census)
 - 22% population increase forecasted by 2030
- Roadway infrastructure = aged + undersized
 - Many TXDOT roadways
- Distribution hub









Denton, TX

KEY POINTS

- O1 LAYING THE GROUNDWORK
- 02 prioritizing safety
- O3 DENTON'S APPROACH
- O4 TODAY & TOMORROW
- 05 LESSONS LEARNED



Laying the Groundwork

Current Efforts

- Highway Safety Improvement Program (HSIP)
 - Received state funding to improve several intersections in the City
- Corridor Signal Coordination and Retiming
- Citywide Speed Study
- Transportation Criteria Manual and Standard Details Update (annually)



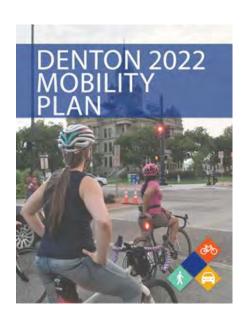




GETTING TO ZERO

Prioritizing Safety

2022 Mobility Plan





- Establish a Vision Zero Action Plan(Goal 1)
- Utilize "Complete Streets" approach when improving Denton Streets(Goal 7)
- Acknowledge vulnerability

Deliver an effective network for travel Facilitate Alternative Travel Opportunities

.everage nnovetion

GOALS



Safety first : Develop and Implement Vision Zero Plan for Denton

Objective 1A: Safety is the number one priority for the planning, design and maintenance of all transportation infrastructure.

Strategy 1.1: Denton's highest priority is protection of human life over other aspects involved in the planning, design and operation of Denton's Transportation Network

Strategy 1.2: Design, evaluate, operate and enforce for safe speeds

Strategy 1.3: Institutionalize a culture that prioritizes safety for all modes of transportation within the City of Denton

Strategy 1.4: Acknowledge vulnerability of non-auto users and enhance safety through planning, design, evaluation and operation of all transportation infrastructure

Strategy 1.5: Minimize the potential for conflicts into the built environment

Strategy 1.6: Integrate safe design principles into the built environment

Strategy 1.7: Improve the ability of all transportation users to see and be seen

Strategy 1.8: Minimize the safety risks of highways and arterials by managing speed

Objective 1B: Promote safe behaviors

Strategy 1.9: Strategically implement education and enforcement initiatives around the top contributing factors of serious injury and fatal crashes

Objective 1C: Prioritize funding for safety improvements

Strategy 1.10: Identify and allocate annual funding for safety improvements within the City Strategy 1.11: Pursue and secure local, state and federal funding for implementing safety improvements at intersections and corridors throughout the City

Strategy 1.12: Prioritize funding for capital improvement projects that include safety improvements





Denton's Approach

Why Vision Zero Assessment?

- Roadway deaths are rising, even in Vision Zero cities
- Move away from business as usual
- Re-think how to approach our safety practice to achieve reductions



"If you always do what you've always done, you'll always get what you've always got" –

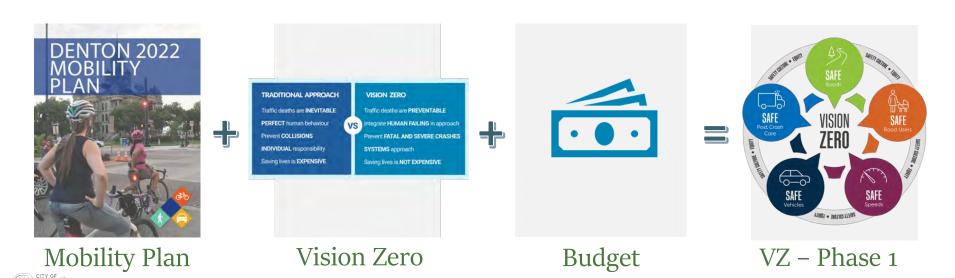
Henry Ford



Denton's Approach

Phased Approach

- · Phase 1: Self Assessment
- Phase 2: Develop the Vision Zero Action Plan
- Phase 3: Implementation & Monitor



DENTON'S APPROACH

Start with Information: Self Assessment

Benchmarking the City vs. 10 Core Elements of Vision Zero





Leadership and Commitment

- 1. Public, High-Level, and Ongoing Commitment.
- The Mayor and key elected officials and leaders within public agencies, including transportation, public health, and police, commit to a good of eliminating traffic fataltities and serious injuries within a specific timeframe. Leadership across these agencies consistently engages in prioritizing safety via a collaborative working group and other resource-sharing efforts.
- Authentic Engagement. Meaningful and accessible community engagement toward Vision Zero strategy and implementation is employed, with a focus on equity.

Equity and Engagement

Elevating equity and meaningful community engagement, particularly in low-income communities and communities of color, should be a priority in all stages of Vision Zero work.

- 3. Strategic Planning. A Vision Zero Action Plan is developed, approved, and used to guide work. The Plan includes explicit goals and measurable strategies with clear timelines, and it identifies responsible stakeholders.
- 4. Project Delivery. Decision-makers and system designers advance projects and policies for safe, equitable multi-modal travel by securing funding and implementing projects, prioritizing roadways with the most pressing safety issues.

Safe Roadways and Safe Speeds

- 5. Complete Streets for All. Complete Streets concepts are integrated into communitywide plans and implemented through projects to encourage a safe, well-connected transportation network for people using all modes of transportation. This prioritizes after travel of reposle over expeditious travel of motor vehicles.
- 6. Context-Appropriate Speeds. Travel speeds are set and managed to achieve safe conditions for the specific roadway context and to protect all roadway users, particularly those most at risk in crashes. Proven speed management policies and practices are prioritized to reach this goal.

Data-driven Approach, Transparency, and Accountability

- 7. Equity-Focused Analysis and Programs. Commitment is made to an equitable approach and outcomes. including prioritizing engagement and investments in traditionally under-served communities and adopting equitable traffic enforcement practices.
- **8. Proactive, Systemic Planning.** A proactive, systems-based approach to safety is used to identify and address top risk factors and mitigate potential crashes and crash severity.
- **9. Responsive, Hot Spot Planning.** A map of the community's fatal and serious injury crash locations is developed, regularly updated, and used to guide priority actions and funding.
- 10. Comprehensive Evaluation and Adjustments. Routine evaluation of the performance of all safety interventions is made public and shared with decision makers to inform priorities, budgets, and updates to the Vision Zero Action Plans.

To learn more about the Vision Zero Core Elements, see the Vision Zero Network's full Vision Zero Core Elements document, which includes further details and links to examples and related resources. In addition, the Vision Zero Network website and IRE Safety Resources Toolbox offer useful information on Vision Zero principles, recommended practices, and analysis strategies.

Self-Assessment: Expected Outcome

Self-Exploration

- Commitment
- Consistency
- Challenges
- Alignment with best practices

Clarify & Prioritize Goals

- Leadership emphasis
- Design/Engineering
- Data Stewardship
- Equity Emphasis
- Systemic/Proactive Planning

Action Planning

 Key opportunities and actions



Methodology

Workflow / Schedule

- March 2022: Kickoff & ID Stakeholders
- April June 2022: Webinar, Survey and Interviews
- July October 2022:
 Benchmarking & Workshops
- February 2023: Prioritized Actions

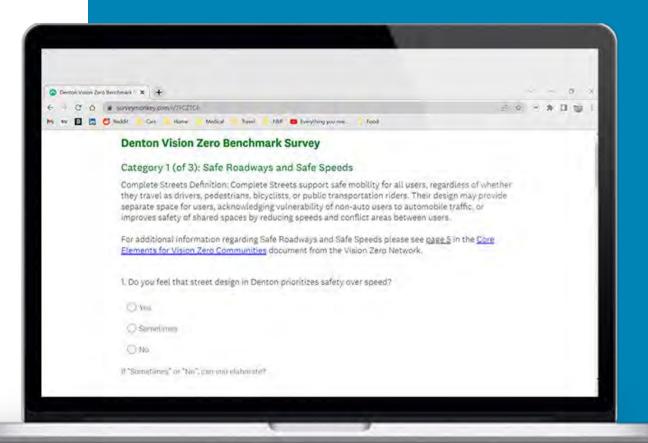




Survey

Design

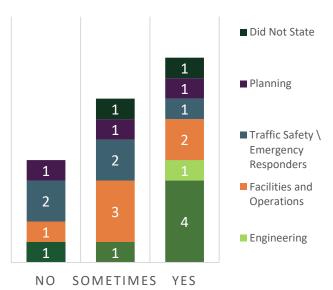
- Approx. 60 People
- 33 Questions
- 24 Responses



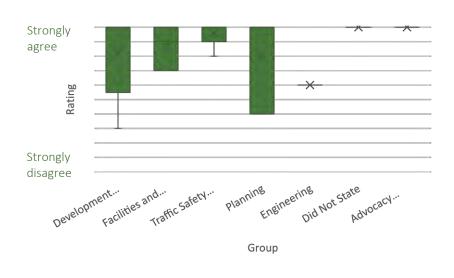


Responses Survey

Q1. Do you feel that street design in Denton prioritizes safety over speed?



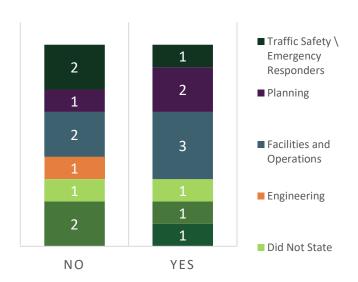
Q8. Human life should always take priority over moving vehicles faster.



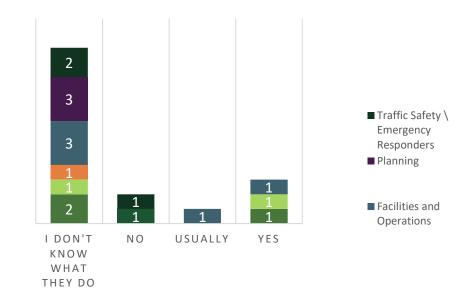


Responses Survey

Q16. Are you aware that Denton has a Traffic Safety Commission?



Q17. Do you find the Traffic Safety Commission to be an effective avenue for addressing safety in Denton?





Initial Benchmarking

Benchmark	Not a Current Practice	Occasional Practice	Institutionalized Practice	Need Additional Information	
Key elected officials & leaders have made a public commitment to the goal of eliminating traffic fatalities & serious injuries within a specific timeframe.		~			Some committed, but not institutionalized.
Key elected officials are consistently engaged in prioritizing safety via collaborative efforts.		~			Survey response Q12 and Q14 indicate that elected officials are generally supportive of safety efforts, but Q19 indicates that they might not be consistently engaged.
Key stakeholders have made a clear, public statement in support of Vision Zero efforts and timeline.	~				City staff & some stakeholders are supportive, but no formal VZ commitment (yet).
The stakeholder group is representative of the community at large.		~			No VZ stakeholder group currently. Advocates not a significant element of current stakeholder group. But safety is council and TSC priority.
An interdepartmental safety working group regularly coordinates with leadership to discuss progress.		~			Traffic Safety Commission meets; they are not well known internally or externally.



Actions

	Benchmark	Actions	
Complete Streets for All	The City has a Complete Streets Plan.	1. Identify if a complete streets policy would be important to develop to support the City's safety goals during the Vision Zero planning process. Document relevant actions in Vision Zero plan and task the lead agency with initiatiting process to turn them into official policies with documentation.	
	The City has allocated adequate funding for the complete streets projects.	Current Practice - No Action Required	
	Complete Street elements have been incorporated into the Thoroughfare Plan.	Current Practice - No Action Required	
	Vulnerable users are prioritized in project planning and implementation.	1. Review and revise the current CIP scoring methodology to reward projects that integrate the safety of vulnerable road users.	
	The City actively coordinates with neighboring municipalities to provide connections for people walking and biking.	Current Practice - No Action Required	



Actions (cont.)

Considerations/Comments for discussion	Complexity / Effort	Next Steps	Potential Best Practice	
documents including the Mobility Plan and transportation Criteria Manual. Complete streets policies	addresses all modes but there are elements	Augment the Denton Mobility Plan with performance measures, a framework for prioritizing modes, and more detailed analysis of transit, bicycle and pedestrian circulation.	https://smartgrowthamerica.org/program/na tional-complete-streets-coalition/policy-atlas/policy-development/https://www.nctcog.org/trans/plan/roads/complete-streets-context-sensitive-design. Fort Worth Master Thoroughfare plans offers a path to selecting cross-sections (but is quite formulaic)	
May require updating City procedures. Could benefit from a safety or complete streets checklist.	Moderate - Similar issues as Complete Streets Plan. Recommendations should be developed as part of VZ Plan.	would likely be implemented after adoption	https://www.seattle.gov/documents/Departments/SDOT/PlanningProgram/CompSt_Checklist.pdf	



Today and Tomorrow

- Vision Zero Ph 2 Action Plan development stalled
 - Staffing vacancies (yes we are hiring!)
 - Still have the funding for Phase 2!



- SS4A funding rethink about potential projects for these funding opportunities
- Continue with implementing context sensitive design approaches applying the "safety lenses"
 - Capital projects now inviting Planners to the conversation early in project
 - How do we better engage the community and <u>communicate</u> with them
 - Pedestrians and bicyclists must identify solutions to protect them too!
 - · Influencing site design through our development review process



Today and Tomorrow

- Changed our organizational approach and mindset to a "safety first" perspective
 - · City management buy-in
 - Created Transportation Planning Division
 - Moved positions in the organization
 - Project design and implementation



Lesson's Learned

- Think creatively can we phase our VZ program?
 - Used the funds/resources we already had
 - Allowed us to identify current successes and the challenges we may face in the future
 - Phase 1 results provides us the basis for developing our Phase 2 action plan
 - · Which stakeholders may be our program champions?
- Staff losses are brutal the new reality right now
 - Loss of project knowledge and professional expertise
 - Existing staff having to learn and pick up where others left off





Lesson's Learned

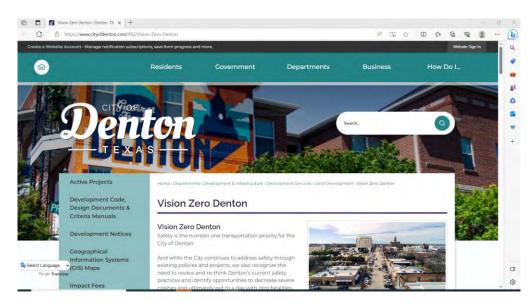
- Take credit for current wins! what are we already doing that infuses safety into other aspects of our project?
 - HSIP, context sensitive design, speed studies, manual updates
 - Influencing site design through City's development review process (current planning)
- Mobility Plan does it address safety as a priority?
 - Provides policy support for future funding requests
- Work with your Police Dept to obtain better data to understand the incident on your DOT facilities; meet regularly
- Your organization can adapt towards a Safe Systems Approach just take a different path

GETTING TO ZERO

For more information...

Vision Zero Denton

- Project methodology
- Stakeholder listing
- Survey results
- Benchmarking results
- Follow-up actions needed



cityofdenton.com/992/Vision-Zero-Denton



GETTING TO ZERO

Team

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Getting to Zero

Denton

TEXAS

Tina Firgens, Deputy Director of Development Services/Planning Director

NCTCOG – Regional Safety Advisory Committee August 25, 2023